

16110(J)

B. Tech 6th Semester Examination

Estimation and Costing (NS) *June-16*

CE-326

Time : 3 Hours

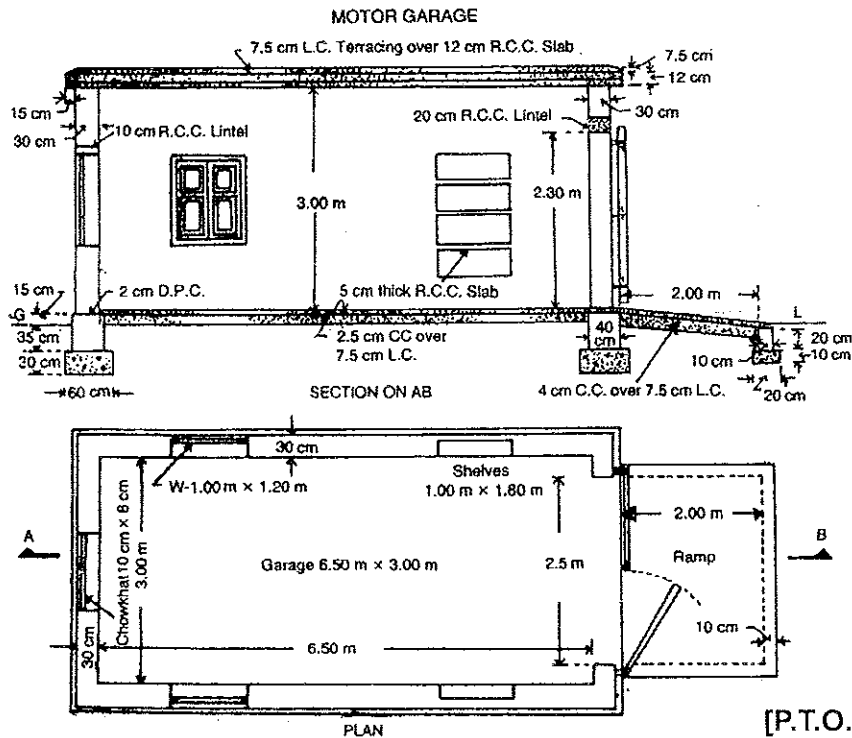
Max. Marks : 100

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note : Attempt five questions in all, selecting one question from each section A, B, C, and D, section E is compulsory.

SECTION - A

1. Find earthwork for foundation and I-class brick work in foundation and plinth of a motor garage from the drawings shown in fig. below: (20)



2. Give in detail per cum calculation of rate analysis of RCC work in beam (1:2:4) which include material and labour cost, assume data required suitably. (20)

SECTION - B

3. Give the detail specifications of Brickwork in I-class. (20)
4. Explain in detail the following:
- Need of specifications.
  - Detail specification of white washing work. (10+10=20)

SECTION - C

5. (a) Give the classification of different types of contracts in the Indian construction industry. (10)
- (b) Explain the purpose and format of the muster roll. (10)
6. (a) What is the need of arbitration in the construction industry? (10)
- (b) Explain the account procedure of stores. (10)

SECTION - D

7. Explain how plinth area required for Government Residential Buildings is decided by taking suitable example. (20)
8. (a) Explain the depreciation method of valuation. (10)
- (b) A property fetches a net annual income of Rs. 10,000/- deducting all outgoings. Workout the capitalized value of the property if rate of interest is 6% per annum. (10)

## SECTION - E

9. Explain the following:

- (i) Difference between plinth area and cubic rate estimates.
- (ii) Data are required for estimating.
- (iii) Different items of work in bridge construction.
- (iv) Difference between general and detail specifications.
- (v) Purpose of valuation.
- (vi) Difference between scrap and salvage values.
- (vii) Need of measurement book and how it is linked to the payments.
- (viii) Temporary advance.
- (ix) Sinking fund.
- (x) Security money. (10×2=20)